

SECTION 10170

SOLID PLASTIC TOILET COMPARTMENTS

PART 1 – GENERAL

1.01 SUBMITTALS

- A. Plastic compartment work includes the following, where indicated:
 - 1. Floor-mounted overhead-braced compartments.
- B. Furnish all labor and materials necessary for the completion of work in this section as shown on the contract drawings and specified herein.
- C. Work in this section shall include, but is not limited to:
 - 1. Toilet compartments, compartment doors, urinal screens, privacy screens and entry partitions.
 - 2. Hardware for toilet compartments and plastic partitions.
 - 3. Shop drawings and working drawings.
 - 4. Manufacturer's guarantee.
- D. Related work specified elsewhere shall include accessories and anchorage/blocking for attachment of partitions.

1.02 PRODUCT

- A. Submit six (6) sets of shop drawings and details for architect's approval.
- B. Colors shall be selected from the manufacturer's full range of 23 colors.
- C. Color samples and hardware samples shall be submitted for approval by the architect upon request.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Toilet partitions and screens to be supplied by SCRANTON PRODUCTS (Santana/Comtec/Capitol) Moosic, PA, or approved equal.

2.02 MATERIALS

- A. Doors, panels and pilasters shall be 1" thick constructed from High-Density Polyethylene (HDPE) resins. Partitions shall be fabricated from polymer resins compounded under high pressure, forming a single component which is waterproof, nonabsorbent and has a self-lubricating surface that resists marks from pens, pencils, markers and other writing instruments. All plastic components shall be covered with a protective plastic masking.

2.03 CONSTRUCTION

- A. Doors, panels, and pilasters shall be 1" thick with all edges rounded to a .5" radius.
- B. Doors and dividing panels shall be 55" high and mounted at 14" above the finished floor. An aluminum heat sink may be fastened to the bottom edges.
- C. Pilasters shall be 82" high and fastened into a 3" high pilaster shoe with a stainless steel, torx head sex bolts.

2.04 HARDWARE

- A. Door hardware shall be as noted:
 - 1. Hinges shall be 8" and fabricated from heavy-duty extruded aluminum (6463-T5 alloy) with bright dipped anodized finish with wrap-around flanges, through bolted to doors and pilasters with stainless steel, torx head sex bolts. Hinges operate with field adjustable nylon cams. Cams can be field set in 30-degree increments OR, hinges shall be integral, fabricated from the door and pilaster with no exposed metal parts.
 - 2. Door strike/keeper shall be 6" long and made of heavy-duty extruded aluminum (6436-T5 alloy) with bright dipped anodized finish, with wrap around flanges and secured to the pilasters with stainless steel, torx head sex bolts. Bumper shall be made of extruded black vinyl.
 - 3. Latch and housing shall be made of heavy-duty extruded aluminum (6463-T5 alloy). The latch housing shall have a bright dipped anodized finish, and the slide bolt and button shall have a black anodized finish.
 - 4. Each door shall be supplied with one coat bumper/hook and 2 door pulls made of chrome plated zamak. Outswing doors shall be supplied with a door stop made of chrome plated zamak.
- B. Pilaster shoes shall be 3" high and made of one-piece molded HDPE plastic available in burgundy, mocha, black, parchment, white, charcoal grey, hunter, grey, fossil, linen, beige, blueberry, azure, cappuccino, sandcastle, sandstone, glacier grey, OR, pilaster shoes shall be 3" high (type 304, 20 gauge) stainless steel. Pilaster shoes shall be secured to the pilaster with a stainless steel, torx head sex bolt.
- C. Wall brackets shall be 54" long and made of heavy duty extruded PVC plastic and are available in burgundy, mocha, black, parchment, white, charcoal grey, hunter, grey, fossil, linen, beige, blueberry, azure, cappuccino, sandcastle, sandstone and glacier grey and fastened to the pilaster with stainless steel, tamper resistant torx screws and fastened to the panels with stainless steel, torx head sex bolts.
OR, wall brackets shall be 1.5" stirrup type made of heavy-duty aluminum (6463-T5 alloy) with a bright dipped anodized finish. Stirrup brackets shall be fastened to pilasters and panels with stainless steel, torx head sex bolts.
- D. Headrail shall be made of heavy-duty extruded aluminum (6463-T5 alloy) with anti-grip design and integrated curtain track. The headrail shall have a clear anodized finish and shall be fastened to the headrail bracket by a stainless steel, torx head sex bolt, and fastened to the top of the pilasters with stainless steel, tamper resistant torx screws.

- E. Headrail brackets shall be 20 gauge stainless steel with a satin finish, and secured to the wall with #14 stainless steel screws.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Examine areas to receive toilet partitions, screens, and shower compartments for correct height and spacing of anchorage/blocking and plumbing fixtures that may affect installation of partitions. Report any discrepancies to the architect.
- B. Take complete and accurate measurements of complete toilet compartment locations.
- C. Start of work constitutes acceptance of job.

3.02 INSTALLATION

- A. Install partitions rigid, straight, plumb, and level manor, with plastic laid out as shown on shop drawings and manufacturer's installation instructions.
- B. All doors and panels to be mounted at 14" above finished floor.
- C. Clearance at vertical edges of doors shall be uniform top to bottom and shall not exceed 3/8"
- D. No evidence of cutting, drilling, and/or patching shall be visible on the finished work.
- E. Finished surfaces shall be cleaned after installation and be left free of all imperfections.

3.03 WARRANTY

- A. SCRANTON PRODUCTS (Santana/Comtec/Capitol) guarantees its plastic against breakage, corrosion, and delamination under normal conditions for 15 years from the date of receipt by the customer. If materials are found to be defective during that period for reasons listed above, the materials will be replaced free of charge. (Labor not included in warranty.)

END OF SECTION

SANTANA'S DIVISION 10 SPECIALTIES

HDPE TECHNICAL SPECIFICATIONS FLOOR-MOUNTED OVERHEAD-BRACED TOILET COMPARTMENTS INTEGRAL HINGE SYSTEM (FMOB 4004) "CLEAN LOOK"

10.A. 1. SCOPE

- A. Requirements of the general conditions and special conditions apply to the work in this section.
- B. Provide all labor, materials, etc. necessary for the completion of the work of this section as specified or shown on the drawings.
- C. Work of this section consists of, but is not limited to the following:
 - 1. Toilet compartments
 - 2. Hardware, etc. for stalls
 - 3. Shop drawings
- D. Work not included in this section.
 - 1. Toilet room accessories in Section 10B or by others.

10.A. 2. SUBMITTALS

- A. Submit (6) sets of shop drawings, including details and a sample of each item of hardware (**if requested**) for architect's approval.
- B. Provide drawings showing location for adequate steel reinforcements or wood blocking in walls to be provided by others for proper securement of the finished work.
- C. Furnish color samples for use of the architect.
- D. Furnish documentation on hardware, headrail, and continuous wall bracket to meet specification as outlined.

10.A. 3. MATERIALS

- A. Toilet compartment shall be floor-mounted, overhead-braced, with non-corrosive doors, panels and pilasters similar and equal to Poly-Mar HD® or Poly-Granite HD® compartments as manufactured by Santana Products Inc., Scranton, PA, or an approved equal by specifier or design professional prior to bid date with hardware as specified herein.
- B. Panels, doors and pilasters shall be fabricated from High Density Polyethylene (HDPE) containing minimum of 10% recycled material which is waterproof, non-absorbent and has a self-lubricating surface that resists marking with pens, pencils or other writing utensils. All panels, doors and pilasters to arrive at job-site with special protective plastic covering.
- C. Characteristics
 - 1. High Density Polyethylene (HDPE) of solid Poly-Mar HD® or Poly-Granite HD® materials in colors that extend throughout the surface; the panels, doors, and pilasters shall have combined recycled and/or virgin material (HDPE).
 - 1. Doors, panels and pilasters shall be nominally 1" thick and all edges machined to a radius of .250" and all exposed surfaces to be free of saw marks.
- D. Fabrication
 - 1. Dividing panels shall be 55" high and mounted at 14" above finished floor.
 - 2. Doors shall be 55" and mounted at 14" above finished floor.
 - 3. Pilasters shall be 82" high, mounted with a one-piece plastic shoe with star-head security pin, stainless steel screws.
 - 4. Finish of doors, panels, and pilasters shall be similar and equal to Santana Products, Inc. Color of doors, panels and pilasters to be selected from the standard Poly-Mar HD® or Poly-Granite HD® colors.
 - 5. Aluminum edging strips to be fastened to the bottom edge of all doors and panels using vandal-proof "T" barb heat sinc.
- E. Technical Data
 - 1. Santana Plastic Products to be independently certified in writing by the manufacturer indicating compliance to appropriate building codes governing the project as it applies to the "use of plastic in a commercial building."

F. Manufacturer to supply a written warranty covering all plastic components and plastic hardware against breakage, corrosion and delamination for a period of 15 years.

10.A. 4. HARDWARE

A. Door hardware shall be as follows:

1. Hinges shall be integral hinge system. Pilaster to be machined to accept door and hinge mechanism. Hinge mechanism consists of a 2-piece 1/2" diameter nylon pin with "Cam Action" and a 3/16" stainless steel pin inserted into lower portion of pilaster and door. A one-piece 1/2" diameter, 4" long nylon pin to be inserted into the top portion of the pilaster and door.
2. Each handicapped door to include: (1) door pull (1) wall stop.
3. Door strike and keeper shall be fabricated from heavy aluminum extrusion (6463-T5 Alloy) with bright-dipped anodized finish with wrap around flange surface mounted and thru-bolted to pilaster with star-head security pin, stainless steel barrel bolts. Size of strike shall be 6" in length.
4. Door latch housing shall be fabricated from heavy aluminum extrusion (6463-T5 Alloy) with bright-dipped anodized finish, surface mounted and screwed to door with #14 x 3/4" star-head security pin, stainless steel screws. Slide bolt and button shall be heavy aluminum with "Tuff-Coat Black" anodized finish.
5. Each door is furnished with (1) Coat hook with rubber bumper made of heavy chrome plated zamac.

B. Plastic pilaster shoes shall be anchored to finished floor with plastic anchors and #14 x 1-1/2" star-head security pin, stainless steel screws.

C. Full length continuous plastic wall brackets shall be used for all panels to pilaster, pilasters to wall and panel to wall connections. Santana's "CLEAN LOOK" shall be used for stall fronts utilizing #14 x 3/4" star-head security pin, stainless steel screws. Wall brackets at pilaster to panel and pilaster to bracket connections at wall shall be fastened with #14 x 3/4" star-head security pin, stainless steel screws. All bracket to panel connections shall be thru-bolted with star-head security pin, stainless steel barrel bolts. Attachment of brackets to adjacent wall construction shall be accomplished #14 x 1-1/2" star-head security pin, stainless steel screws anchored directly behind the vertical edge of panels and pilasters at 13" intervals along the full length of bracket and at each 13" interval alternately spaced between anchor connections.

D. Headrail shall be heavy aluminum extrusion (6463-T5) with bright-dipped anodized finish in anti-grip configuration as manufactured by Santana Products Inc. Headrail shall be fastened to tops of pilasters and headrail brackets by thru-bolting with star-head security pin, stainless steel barrel bolts (no cadmium plated bolts allowed).

E. Headrail brackets shall be 18-gauge stainless steel.

10.A. 5. INSTALLATION: Erection of partitions, etc., shall be in accordance with the manufacturer's standard recommendations and the following:

- A. All parts shall be erected in a substantial manner, straight, level, and plumb.
- B. No evidence of drilling, cutting, or patching shall be visible in the finished work.
- C. Clearance at vertical edges of doors shall be uniform top to bottom and shall not exceed 1/4".
- D. Finished surfaces shall be cleaned after installation and left free of imperfections.
- E. Authorized factory installers to be utilized.

SANTANA PRODUCTS INC.

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SANTANA DIVISION 10 SPECIALTIES

HDPE TECHNICAL SPECIFICATIONS SOLID PLASTIC URINAL SCREENS "CLEAN LOOK"

10.A. 1. SCOPE

- A. Requirements of the general conditions and special conditions apply to the work in this section.
- B. Provide all labor, materials, etc. necessary for the completion of the work of this section as specified or shown on the drawings.
- C. Work of this section consists of, but is not limited to the following:
 - 1. Solid Plastic Urinal Screens
 - 2. Hardware, etc. for Urinal Screens
 - 3. Shop drawings
- D. Work not included in this section.
 - 1. Toilet room accessories in Section 10B or by others.

10.A. 2. SUBMITTALS

- A. Submit (6) sets of shop drawings, including details and a sample of each item of hardware for architect's approval.
- B. Provide drawings showing location for adequate steel reinforcements or wood blocking in walls to be provided by others for proper securement of the finished work.
- C. Furnish color samples for use of the architect.
- D. Furnish documentation on hardware, headrail, and continuous wall bracket to meet specification as outlined.

10.A. 3. MATERIAL

- A. Solid plastic urinal screens shall be wall mounted, with non-corrosive doors, panels and pilasters similar and equal to Poly-Mar HD® or Poly-Granite HD® compartments as manufactured by Santana Products Inc., Scranton, PA, or an approved equal by specifier or design professional prior to bid date with hardware as specified herein.
- B. Urinal screens with or without pilasters shall be fabricated from High Density Polyethylene (HDPE) containing minimum of 10% recycled material which is waterproof, non-absorbent and has a self-lubricating surface that resists marking with pens, pencils or other writing utensils. All urinal screens and pilasters to arrive at job-site with special protective plastic covering.
- C. Characteristics
 - 1. High Density Polyethylene (HDPE) of solid Poly-Mar HD® or Poly-Granite HD® materials in colors that extend throughout the surface; the panels, doors, and pilasters shall have combined recycled and/or virgin material (HDPE).
 - 1. Urinal screens with or without pilaster(s) shall be a nominally 1" thick and all edges machined to a radius of .250" and all exposed surfaces to be free of saw marks.
- D. Fabrication
 - 1. Urinal screens will be a minimum 42" high by 18" deep mounted at 14" above finished floor.
 - 2. Urinal screens to be 24" deep and 42" high will be wall mounted at 14" above finished floor with or without pilaster(s); pilasters shall be a minimum of 56" high with or without supporting headrail from 82" high pilasters to adjacent wall per plans and details.
 - 3. Pilasters shall be mounted with a one-piece plastic shoe with star-head security pin, stainless steel screws.
 - 4. Finish of urinal screens and pilasters shall be similar and equal to Santana Products, Inc.. Color of panels and pilasters to be selected from the standard Poly-Mar HD® or Poly-Granite HD® colors.
 - 5. Aluminum edging strips to be fastened to the bottom edge of all doors and panels using vandal-proof "T" barb heat sinc.
- E. Technical Data
 - 1. Santana Plastic Products to be independently certified in writing by the manufacturer indicating compliance to appropriate building codes governing the project as it applies to the "use of plastic in a commercial building."

F. Manufacturer to supply a written warranty covering all plastic components and plastic hardware against breakage, corrosion and delamination for a period of 15 years.

10.A. 4. HARDWARE

A. Solid plastic pilaster shoes shall be anchored to finished floor with plastic anchors and #14 x 1-1/2" s star-head security pin, stainless steel screws.

B. Full length continuous plastic wall brackets shall be used for all panels to pilaster, pilasters to wall and panel to wall connections. Santana's "CLEAN LOOK" shall be used for screen fronts utilizing #14 x 3/4" star-head security pin, stainless steel screws. Wall brackets at pilaster to panel and pilaster to bracket connections at wall shall be fastened with #14 x 3/4" star-head security pin, stainless steel screws. All bracket to panel connections shall be thru-bolted with star-head security pin, stainless steel barrel bolts. Attachment of brackets to adjacent wall construction shall be accomplished #14 x 1-1/2" star-head security pin, stainless steel screws anchored directly behind the vertical edge of panels and pilasters at 13" intervals along the full length of bracket and at each 13" interval alternately spaced between anchor connections.

C. Headrail shall be heavy aluminum extrusion (6463-T5) with bright-dipped anodized finish in anti-grip configuration as manufactured by Santana Products Inc. Headrail shall be fastened to tops of pilasters and headrail brackets by thru-bolting with star-head security pin, stainless steel barrel bolts (no cadmium plated bolts allowed).

D. Headrail brackets shall be 18 gauge stainless steel.

10.A. 5. INSTALLATION: Erection of urinal screens, etc, shall be in accordance with the manufacturer's standard recommendation and the following:

A. All parts shall be erected in a substantial manner, straight, level, and plumb.

B. No evidence of drilling, cutting, or patching shall be visible in the finished work.

C. Clearance at vertical edges of doors shall be uniform top to bottom and shall not exceed 1/4".

D. Finished surfaces shall be cleaned after installation and left free of imperfections.

E. Authorized factory installers to be utilized.

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